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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/676,070	10/02/2003	Jung Sig Jun	0465-1058P	7784
2292	7590 11/24/2006		EXAM	INER
BIRCH STEWART KOLASCH & BIRCH PO BOX 747			TSE, YOUNG TOI	
FALLS CHURCH, VA 22040-0747			ART UNIT	PAPER NUMBER
,		2611		
		DATE MAILED: 11/24/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

-47

	Application No.	Applicant(s)			
	10/676,070	JUN, JUNG SIG			
Office Action Summary	Examiner	Art Unit			
	YOUNG T. TSE	2611			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
 1) ☐ Responsive to communication(s) filed on <u>02 Oc</u> 2a) ☐ This action is FINAL. 2b) ☐ This 3) ☐ Since this application is in condition for allowant closed in accordance with the practice under E 	action is non-final.				
Disposition of Claims					
4) ☐ Claim(s) 1-10 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-10 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or					
Application Papers					
9)☐ The specification is objected to by the Examiner 10)☑ The drawing(s) filed on <u>02 October 2003</u> is/are: Applicant may not request that any objection to the ore Replacement drawing sheet(s) including the correction 11)☐ The oath or declaration is objected to by the Examiner	a)⊠ accepted or b)⊡ objected drawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s)					
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite			
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Art Unit: 2611

DETAILED ACTION

Claim Objections

1. Claims 1-4 and 7-10 are objected to because of the following informalities:

In claim 1, line 9, "a complex carrier" should be "the complex carrier". Also see claim 7 (line 14), claim 9 (line 10) and claim 10 (line 5).

In claim 4, line 2, "for a" should be "for the".

Wherein claims 2 and 3 depend on claim 1.

Wherein claim 8 depends on claim 7.

Appropriate correction is required.

Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claims 1-10 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 1, lines 1 and 3, what is the difference between "a carrier" and "a complex carrier"? Also see claims 5, 7 and 9.

In claim 10, is "a phase error" recited in line 3 different than "a phase error" recited in line 3 of claim 9?

Wherein claims 2-4 depend on claim 1, claim 6 depends on claim 5, and claim 8 depends on claim 7.

Art Unit: 2611

Allowable Subject Matter

4. Claims 1-10 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

References Strolle et al., Sugita et al., Aman et al., and Ahn are all related to carrier recovery circuits for converting baseband I and Q signals by multiplying digitized I and Q signals by a complex carrier according to a phase error.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to YOUNG T. TSE whose telephone number is (571) 272-3051. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jay Patel can be reached on (571) 272-2988. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2611

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

YOUNG T. TSE Primary Examiner Art Unit 2611